

Substitute Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

Attorney's Docket No.

10559-154001

Application No.

09/539,343

Information Disclosure Statement
by Applicant

JAN 07 2005

37 CFR §1.98(b)

Use several sheets if necessary)

Applicant

Dean P. Macri et al.

Filing Date

March 31, 2000

Group Art Unit

2672 2675

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
Aug	AA	4,600,919	07-1986	Stem			
	AB	4,747,052	05-1988	Hishinuma et al.			
	AC	4,835,712	05-1989	Drebin et al.			
	AD	4,855,934	08-1989	Robinson			
	AE	4,901,064	02-1990	Deering			
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	AG	5,163,126	11-1992	Einkauf et al.			
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Examiner Signature

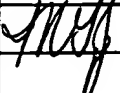
M. Johnson

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7/12/05

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	ABB	6,175,655	01-2001	George et al.			
	ACC	6,191,787	02-2001	Lu et al.			
	ADD	6,191,796	02-2001	Tarr			
	AEE	6,198,486	03-2001	Junkins et al.			
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	AGG	6,208,347	03-2001	Migdal et al.			
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Foreign Patent Documents or Published Foreign Patent Applications							
Examiner	Desig.	Document	Publication	Country or	Class	Subclass	Translation
Examiner Signature <i>W. M. Johnson</i>				Date Considered <i>4/12/05</i>			
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							Yes	No
	AAAA							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
mgj	ABBB	Alliez et al., "Progressive Compression for Lossless Transmission of Triangle Meshes," <u>ACM SIGGRAPH</u> 2001, pgs. 195 - 202 (2001).
	ACCC	Appel, Arthur, "The Notion of Quantitative Invisibility and the Machine Rendering of Solids." Proceedings of 22nd National Conference Association for Computing Machinery 1967.
	ADDD	Bajaj et al., "Progressive Compression and Transmission of Arbitrary Triangular Meshes," <u>IEEE</u> , pgs. 307 - 316 (1999).
	AEEE	Buck et al., "Performance-Driven Hand Drawn Animation", <u>ACM</u> (NPAR2000), pgs. 101 - 108 (2000).
	AFFF	Catmull et al., "Recursively Generated B-Spline Surfaces on Arbitrary Topological Meshes," <u>Computer Aided Design</u> , 10(6):350 - 355 (1978).
	AGGG	Chow, M., "Optimized Geometry Compression for Real-time Rendering," <u>IEEE</u> , pgs. 347-354 (1997).
	AHHH	Coelho et al., "An Algorithm for Intersecting and Trimming Parametric Meshes", <u>ACM SIGGRAPH</u> , pgs. 1 - 8 (1998).
	AIII	Cohen-Or, D. et al., "Progressive Compression of Arbitrary Triangular Meshes," <u>IEEE Visualization 99 Conference Proc.</u> , pgs. 67 - 72 (1999).
	AJJJ	Deering, M., "Geometry Compression," <u>Computer Graphics. SIGGRAPH '95</u> , pages 13-20, 1995.
	AKKK	DeRose et al., "Subdivisional Surfaces in Character Animation", <u>ACM, SIGGRAPH'98</u> , pgs. 85 - 94 (1998).
	ALLL	Dyn, N. et al., "A Butterfly Subdivision Scheme for Surface Interpolation with Tension Control," <u>ACM Transactions on Graphics</u> , 9(2):160 - 169 (1990).
	AMMM	Elber, Gershon, "Line Art Rendering via a Coverage of Isoperimetric Curves," <u>IEEE Transactions on Visualization and Computer Graphics</u> , 1(3):231 - 239 (1995).
	ANNN	Elber, Gershon, "Interactive Line Art Rendering of Freeform Surfaces", <u>Eurographics'99</u> , 18(3):C1 - C12 (1999).
	AOOO	Gooch et al., "A Non-Photorealistic Lighting Model for Automatic Technical Illustration," <u>Computer Graphics Proceedings, Annual Conference Series, SIGGRAPH'98</u> , pgs. 447-452 (1998).
	APPP	Gooch et al., "Interactive Technical Illustration," <u>ACM Interactive 3D</u> , pgs. 31 - 38 (1999).

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Other Documents (include Author, Title, Date, and Place of Publication)

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MJG	AQQQ	Heidrich et al., "Realistic, Hardware-Accelerated Shading and Lighting," <u>ACM</u> , (SIGGRAPH'99), pgs. 171 - 178 (1999).
	ARRR	Hoppe, H., "Progressive Meshes," URL: http://www.research.microsoft.com/research/graphics/hoppe/ , (10 pgs.).
	ASSS	Hoppe, H., "Efficient Implementation of Progressive Meshes," <u>Comput. & Graphics</u> , 22(1), pgs. 27 - 36 (1998).
	ATTT	Hoppe, H., "View-Dependent Refinement of Progressive Meshes", URL: http://www.research.microsoft.com/~hoppe/ (10 pgs.).
	AUUU	Kumar et al., "Interactive Display of Large Scale NURBS Models", <u>ACM</u> , Symp. On Interactive 3D Graphics, pgs. 51 - 58 (1995).
	AVVV	Lake et al., "Stylized Rendering Techniques for Scalable Real-Time 3D Animation", <u>NPAR</u> , pgs. 101 - 108 (2000).
	AWWW	Lander, Jeff, "Making Kine More Flexible," <u>Game Developer Magazine</u> , 5 pgs., November 1998.
	AXXX	Lander, Jeff, "Skin Them Bones," <u>Game Developer Magazine</u> , 4 pgs., May 1998.
	AYYY	Lansdown et al., "Expressive Rendering: A Review of Nonphotorealistic Techniques," <u>IEEE Computer Graphics & Applications</u> , pgs. 29-37 (1995).
	AZZZ	Lasseter, J. et al., "Principles of Traditional Animation Applied to 3D Computer Animation," <u>ACM</u> , pgs. 35 - 44 (1987).
	AAAAA	Lee, M. et al., "Navigating Through Triangle Meshes Implemented as Linear Quadrees," <u>ACM Transactions on Graphics</u> , 19(2):79 - 121 (2000).
	ABBBB	Lewis, J. P. et al., "Pose Space Deformation: A Unified Approach to Shape Interpolation and Skeleton-Driven Deformation," <u>ACM</u> , (SIGGRAPH 2000), pgs. 165 - 172 (2000).
	ACCCC	Ma et al., "Extracting Feature Lines for 3D Unstructured Grids," <u>IEEE</u> , pgs. 285 - 292 (1997).
	ADDDD	Markosian, L. et al., "Real-Time Nonphotorealistic Rendering," <u>SIGGRAPH'97</u> , 6 pgs. (1997).
	AEEEE	Pajarola et al., "Compressed Progressive Meshes" <u>IEEE Transactions on Visualization and Computer Graphics</u> , 6(1):79 - 93 (2000).
	AFFFF	Pedersen, "A Framework for Interactive Texturing on Curved Surfaces", <u>ACM</u> , pgs. 295 - 301 (1996).
	AGGGG	"pmG Introduces Messiah: Animate 3.0", URL: http://www.digitalproducer.com/aHTML/Articles/july_2000/july_17_00/pmg_intros_messiah_animate.htm (Accessed 10/26/2004) 2 pgs.

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AMJ	AHHHH	Popovic et al., "Progressive Simplicial Complexes" Microsoft Research, http://www.research.microsoft.com/~hoppe/
	AIII	Pueyo, X. et al., "Rendering Techniques '96," Proc. of Eurographics Rendering Workshop 1996, EUROGRAPHICS, p[gs. 61 - 70 (1996).
	AJJJ	Raskar, R. et al., "Image Precision Silhouette Edges," Symposium on Interactive 3D Graphics, ACM, pgs. 135-231 (1999)
	AKKKK	Rockwood, A. et al., "Real-time Rendering of Trimmed Surfaces," Computer Graphics (SIGGRAPH '89 Proceedings) 23:107 - 116 (1989).
	ALLLL	Samet, Hanan, "Applications of Spatial Data Structures: Computer Graphics, Image Processing, and GIS," University of Maryland, Addison-Wesley Publishing Company, 1060-1064, Reading, MA, June 1990
	AMMMM	Sousa, M., et al., "Computer-Generated Graphite Pencil Rendering of 3-D Polygonal Models", Eurographics'99, 18(3):C195 - C207 (1999).
	ANNNN	Stam, J., "Exact Evaluation of Catmull-Clark Subdivision Surfaces at Arbitrary Parameter Values", SIGGRAPH 98 Conference Proceedings, Annual Conference Series, pgs. 395-404 (1998).
	AOOOO	Taubin et al., "3D Geometry Compression", SIGGRAPH'98 Course Notes (1998).
	APPPP	Taubin et al., "Progressive Forest Spilt Compression," IBM T.J. Watson Research Center, 9 pgs. (1998).
	AQQQQ	Thomas (Contributor) et al., "The Illusion of Life: Disney Animation" 47-51
	ARRRR	Wilhelms, J. & Van Gelder, A., "Anatomically Based Modeling," Univ. California Santa Cruz [online], 1997 [retrieved 12/22/2004], retrieved from the Internet: <URL: http://graphics.stanford.edu/courses/cs448-01-spring/papers/wilhelms.pdf >.
	ASSSS	Zelevnik et al., "SKETCH: An Interface for Sketching 3D Scenes" Brown University site of the NSF Science and Technology Center for Computer Graphics and Scientific Visualization, 1996
✓	ATTTT	Zorin "Interpolation Subdivision for Meshes With Arbitrary Topology" Department of Computer Science, California Institute of Technology, Pasadena, CA

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